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Water-Supply and Irrigation Paper No. 119 Series P, Hydrographic Progress Reports, 28

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

INDEX

TO THE

HYDROGRAPHIC PROGRESS REPORTS

OF THE

UNITED STATES GEOLOGICAL SURVEY

1888 to 1903

BY

JOHN C. HOYT AND B. D. WOOD

WASHINGTON
GOVERNMENT PRINTING OFFICE
1905

#119

LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
UNITED STATES GEOLOGICAL SURVEY,
Washington, D. C., January 16, 1905.

SIR: I transmit herewith the manuscript for an index to the hydrographic progress reports of the United States Geological Survey issued during 1888 to 1903, inclusive. This manuscript has been prepared by John C. Hoyt and B. D. Wood, and I request that it be published as a water-supply and irrigation paper.

Very respectfully,

F. H. NEWELL,
Chief Engineer.

Hon. CHARLES D. WALCOTT,
Director United States Geological Survey.

INDEX TO THE HYDROGRAPHIC PROGRESS REPORTS OF THE UNITED STATES GEOLOGICAL SURVEY, 1888 TO 1903.

By JOHN C. HOYT and B. D. WOOD.

INTRODUCTION.

A systematic study of the surface waters of the United States was started by the hydrographic branch of the United States Geological Survey in 1888. A large part of this work has consisted of the measurement of the volume of flow and of the study of conditions affecting it. For each calendar year there has been prepared a Report of Progress of Stream Measurements, embodying the data collected during that year, which has been published either as a part of the annual report of the Director, as a bulletin, or as a water-supply and irrigation paper, as shown by the following list:

1888. Tenth Annual Report, Part II.
1889. Eleventh Annual Report, Part II.
1890. Twelfth Annual Report, Part II.
1891. Thirteenth Annual Report, Part III.
1892. Fourteenth Annual Report, Part II.
1893. Bulletin No. 131.
1894. Bulletin No. 131, and Sixteenth Annual Report, Part II.
1895. Bulletin No. 140, and Seventeenth Annual Report, Part II.
1896. Water-Supply Paper No. 11; Eighteenth Annual Report, Part IV.
1897. Water-Supply Papers Nos. 15 and 16; Nineteenth Annual Report, Part IV.
1898. Water-Supply Papers Nos. 27 and 28; Twentieth Annual Report, Part IV.
1899. Water-Supply Papers Nos. 35 to 39, inclusive; Twenty-first Annual Report, Part IV.
1900. Water-Supply Papers Nos. 47 to 52, inclusive; Twenty-second Annual Report, Part IV.
1901. Water-Supply Papers Nos. 65, 66, and 75.
1902. Water-Supply Papers Nos. 82 to 85, inclusive.
1903. Water-Supply Papers Nos. 97 to 100, inclusive.

As the hydrographic work in most localities has continued during several years, the results of the investigations at any one point are scattered through a number of publications, and the only guide to these data has been the individual indexes. With the growing interest in the commercial development of the hydrographic resources of

the country the demand for these data collected by the Geological Survey has rapidly increased, and in order to aid those wishing to use them this index has been prepared. In its preparation each publication of the foregoing list was carefully reviewed, the data were classified, and entries were made under both names of rivers and names of places.

As the work of the hydrographic branch increased it became necessary to publish a special series of reports to contain the data collected, and the series of Water-Supply and Irrigation Papers was therefore begun. The papers of this series have been classified as follows:

(I) Irrigation.
(J) Water storage.
(K) Pumping water.
(L) Quality of water.
(M) General hydrographic investigations.
(N) Water powers.
(O) Underground waters.
(P) Hydrographic progress reports.

A certain number of these publications, as of all publications of the Geological Survey, are published for free distribution by the Survey, and a certain number are deposited with the Superintendent of Public Documents, Washington, D. C., from whom they may be purchased at a nominal price. Other copies are allotted to the various Congressmen for distribution. As the edition of most of the publications is limited, the supply is soon exhausted. Those who are interested, however, may be able to find copies on file in the public libraries of most of the large cities, or in the libraries of engineering societies.

PUBLICATIONS OF UNITED STATES GEOLOGICAL SURVEY RELATING TO HYDROGRAPHIC SUBJECTS.

To April 1, 1905.

SERIES I—IRRIGATION.

WS 2. Irrigation near Phœnix, Ariz., by A. P. Davis. 1897. 98 pp., 31 pls. and maps.
WS 5. Irrigation practice on the Great Plains, by E. B. Cowgill. 1897. 39 pp., 11 pls.
WS 9. Irrigation near Greeley, Colo., by David Boyd. 1897. 90 pp., 21 pls.
WS 10. Irrigation in Mesilla Valley, New Mexico, by F. C. Barker. 1898. 51 pp., 11 pls.
WS 13. Irrigation systems in Texas, by W. F. Hutson. 1898. 68 pp., 10 pls.
WS 17. Irrigation near Bakersfield, Cal., by C. E. Grunsky. 1898. 96 pp., 16 pls.
WS 18. Irrigation near Fresno, Cal., by C. E. Grunsky. 1898. 94 pp., 14 pls.
WS 19. Irrigation near Merced, Cal., by C. E. Grunsky. 1899. 59 pp., 11 pls.
WS 23. Water-right problems of the Bighorn Mountains, by Elwood Mead. 1899. 62 pp., 7 pls.
WS 32. Water resources of Puerto Rico, by H. M. Wilson. 1899. 48 pp., 17 pls. and maps.
WS 43. Conveyance of water in irrigation canals, flumes, and pipes, by Samuel Fortier. 1901. 86 pp., 15 pls.
WS 70. Geology and water resources of the Patrick and Goshen Hole quadrangles in eastern Wyoming and western Nebraska, by G. I. Adams. 1902. 50 pp., 11 pls.
WS 71. Irrigation systems of Texas, by T. U. Taylor. 1902. 137 pp., 9 pls.
WS 74. Water resources of the State of Colorado, by A. L. Fellows. 1902. 151 pp., 14 pls.
WS 87. Irrigation in India (second edition), by H. M. Wilson. 1903. 238 pp., 27 pls.
WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.
WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

The following papers also relate especially to irrigation: Irrigation in India, by H. M. Wilson, in Twelfth Annual, Pt. II; two papers on irrigation engineering, by H. M. Wilson, in Thirteenth Annual, Pt. III.

SERIES J—WATER STORAGE.

WS 33. Storage of water on Gila River, Arizona, by J. B. Lippincott. 1900. 98 pp., 33 pls.
WS 40. The Austin dam, by T. U. Taylor. 1900. 51 pp., 16 pls.

WS 45. Water storage on Cache Creek, California, by A. E. Chandler. 1901. 48 pp., 10 pls.

WS 46. Physical characteristics of Kern River, California, by F. H. Olmsted, and Reconnaissance of Yuba River, California, by Marsden Manson. 1901. 57 pp., 8 pls.

WS 58. Storage of water on Kings River, California, by J. B. Lippincott. 1902. 100 pp., 32 pls.

WS 68. Water storage in the Truckee basin, California-Nevada, by L. H. Taylor. 1902. 90 pp., 8 pls.

WS 73. Water storage on Salt River, Arizona, by A. P. Davis. 1902. 54 pp., 25 pls.

WS 86. Storage reservoirs on Stony Creek, California, by Burt Cole. 1903. 62 pp., 16 pls.

WS 89. Water resources of the Salinas Valley, California, by Homer Hamlin. 1904. 91 pp., 12 pls.

WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.

WS 116. Water problems of Santa Barbara, California, by J. B. Lippincott. 1905. 99 pp., 8 pls.

The following paper also should be noted under this heading: Reservoirs for irrigation, by J. D. Schuyler, in Eighteenth Annual, Pt. IV.

Series K—Pumping Water.

WS 1. Pumping water for irrigation, by H. M. Wilson. 1896. 57 pp., 9 pls.

WS 8. Windmills for irrigation, by E. C. Murphy. 1897. 49 pp., 8 pls.

WS 14. New tests of certain pumps and water lifts used in irrigation, by O. P. Hood. 1898. 91 pp., 1 pl.

WS 20. Experiments with windmills, by T. O. Perry, 1899. 97 pp., 12 pls.

WS 29. Wells and windmills in Nebraska, by E. H. Barbour. 1899. 85 pp., 27 pls.

WS 41. The windmill; its efficiency and economic use, Pt. I, by E. C. Murphy. 1901. 72 pp., 14 pls.

WS 42. The windmill; its efficiency and economic use, Pt. II (continuation of No. 41), by, E. C. Murphy. 1901. 73–147 pp., 15–16 pls.

WS 91. The natural features and economic development of the Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.

WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

Series L—Quality of Water.

WS 3. Sewage irrigation, by G. W. Rafter. 1897. 100 pp., 4 pls.

WS 22. Sewage irrigation, Pt. II, by G. W. Rafter. 1899. 100 pp., 7 pls.

WS 72. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources, by M. O. Leighton. 1902. 75 pp., 8 pls.

WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.

WS 79. Normal and polluted waters in northeastern United States, by M. O. Leighton. 1903. 192 pp.

WS 103. A review of the laws forbidding pollution of inland waters in the United States, by E. B. Goodell. 1904. 120 pp.

WS 108. Quality of water in the Susquehanna River drainage basin, by M. O. Leighton, with an introductory chapter on physiographic features, by G. B. Hollister. 1904. 76 pp., 4 pls.

WS 113. The disposal of strawboard and oil-well wastes, by R. L. Sackett and Isaiah Bowman. 1905. 52 pp., 4 pls.

SERIES M—GENERAL HYDROGRAPHIC INVESTIGATIONS.

WS 56. Methods of stream measurement. 1901. 51 pp., 12 pls.

WS 64. Accuracy of stream measurements, by E. C. Murphy. 1902. 99 pp., 4 pls.

WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.

WS 80. The relation of rainfall to run-off, by G. W. Rafter. 1903. 104 pp.

WS 81. California hydrography, by J. B. Lippincott. 1903. 488 pp., 1 pl.

WS 88. The Passaic flood of 1902, by G. B. Hollister and M. O. Leighton. 1903. 56 pp., 15 pls.

WS 91. The natural features and economic development of Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.

WS 92. The Passaic flood of 1903, by M. O. Leighton. 1904. 48 pp., 7 pls.

WS 94. Hydrographic manual of the United States Geological Survey, prepared by E. C. Murphy, J. C. Hoyt, and G. B. Hollister. 1904. 76 pp., 3 pls.

WS 95. Accuracy of stream measurements (second enlarged edition), by E. C. Murphy. 1904. 169 pp., 6 pls.

WS 96. Destructive floods in the United States in 1903, by E. C. Murphy. 1904. 81 pp., 13 pls.

WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.

WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.

SERIES N—WATER POWER.

WS 24. Water resources of the State of New York, Pt. I, by G. W. Rafter. 1899. 92 pp., 13 pls.

WS 25. Water resources of the State of New York, Pt. II, by G. W. Rafter. 1899. 100–200 pp., 12 pls.

WS 44. Profiles of rivers in the United States, by Henry Gannett. 1901. 100 pp., 11 pls.

WS 62. Hydrography of the Southern Appalachian Mountain region, Pt. I, by H. A. Pressey. 1902. 95 pp., 25 pls.

WS 63. Hydrography of the Southern Appalachian Mountain region, Pt. II, by H. A. Pressey. 1902. 96–190 pp., 26–44 pls.

WS 69. Water powers of the State of Maine, by H. A. Pressey. 1902. 124 pp., 14 pls.

WS 105. The water powers of Texas, by T. M. Taylor. 1904. 116 pp., 17 pls.

WS 107. Water powers of Alabama, with an appendix on stream measurements in Mississippi, by B. M. Hall. 1904. 253 pp., 9 pls.

WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.

WS 115. River surveys and profiles made during 1903, arranged by W. C. Hall and J. C. Hoyt. 1905. 115 pp., 4 pls.

SERIES O—UNDERGROUND WATERS.

WS 4. A reconnaissance in southeastern Washington, by I. C. Russell. 1897. 96 pp., 7 pls.
WS 6. Underground waters of southwestern Kansas, by Erasmus Haworth. 1897. 65 pp., 12 pls.
WS 7. Seepage waters of northern Utah, by Samuel Fortier. 1897. 50 pp., 3 pls.
WS 12. Underground waters of a portion of southeastern Nebraska, by N. H. Darton. 1898. 56 pp., 21 pls.
WS 21. Wells of northern Indiana, by Frank Leverett. 1899. 82 pp., 2 pls.
WS 26. Wells of southern Indiana (continuation of No. 21), by Frank Leverett. 1899. 64 pp.
WS 30. Water resources of the Lower Peninsula of Michigan, by A. C. Lane. 1899. 97 pp., 7 pls.
WS 31. Lower Michigan mineral waters; a study into the connection between their chemical composition and mode of occurrence, by A. C. Lane. 1899. 97 pp., 4 pls.
WS 34. Geology and water resources of a portion of southeastern South Dakota, by J. E. Todd. 1900. 34 pp., 19 pls.
WS 53. Geology and water resources of Nez Perces County, Idaho, Pt. I, by I. C. Russell. 1901. 86 pp., 10 pls.
WS 54. Geology and water resources of Nez Perces County, Idaho, Pt. II, by I. C. Russell. 1901. 87–141 pp.
WS 55. Geology and water resources of a portion of Yakima County, Wash., by G. O. Smith. 1901. 68 pp., 7 pls.
WS 57. Preliminary list of deep borings in the United States, Pt. I (Alabama-Montana), by N. H. Darton. 1902. 60 pp.
WS 59. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. I, by J. P. Lippincott. 1902. 95 pp., 11 pls.
WS 60. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. II, by J. B. Lippincott. 1902. 96–140 pp.
WS 61. Preliminary list of deep borings in the United States, Pt. II (Nebraska-Wyoming), by N. H. Darton. 1902. 67 pp.
WS 67. The motions of underground waters, by C. S. Slichter. 1902. 106 pp., 8 pls.
B 199. Geology and water resources of the Snake River Plains of Idaho, by I. C. Russell. 1902. 192 pp., 25 pls.
WS 77. The water resources of Molokai, Hawaiian Islands, by Waldemar Lindgren. 1903. 62 pp., 4 pls.
WS 78. Preliminary report on artesian basins in southwestern Idaho and southeastern Oregon, by I. C. Russell. 1903. 53 pp., 2 pls.
PP 17. Preliminary report on the geology and water resources of Nebraska west of the one hundred and third meridian, by N. H. Darton. 1903. 69 pp., 43 pls.
WS 90. Geology and water resources of part of the lower James River Valley, South Dakota, by J. E. Todd and C. M. Hall. 1904. 45 pp., 23 pls.
WS 101. Underground waters of southern Louisiana, by G. D. Harris; with discussions of their uses for water supplies and for rice irrigation, by M. L. Fuller. 1904. 98 pp., 11 pls.
WS 102. Contributions to the hydrology of eastern United States, 1903; M. L. Fuller, geologist in charge. 1904. 522 pp.
WS 104. The underground waters of Gila Valley, Arizona, by Willis T. Lee. 1904. 71 pp., 5 pls.
WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.

WS 110. Contributions to the hydrology of eastern United States, 1904; M. L. Fuller, geologist in charge. 1905. 211 pp., 5 pls.

PP 32. Geology and underground water resources of the central Great Plains, by N. H. Darton. 1905. 433 pp., 72 pls.

WS 111. Preliminary report on the underground waters of Washington, by Henry Landes. 1905. 85 pp., 1 pl.

WS 112. Underflow test in the drainage basin of Los Angeles River, by Homer Hamlin. 1905. 55 pp., 7 pls.

WS 114. Underground water of eastern United States; M. L. Fuller, geologist in charge. 1905. 285 pp., 18 pls.

WS 118. Geology and water resources of a portion of east central Washington, by F. C. Calkins. 1905. 96 pp., 4 pls.

The following papers also relate to this subject: Underground waters of Arkansas Valley in eastern Colorado, by G. K. Gilbert, in Seventeenth Annual, Pt. II; Preliminary report on artesian waters of a portion of the Dakotas, by N. H. Darton, in Seventeenth Annual, Pt. II; Water resources of Illinois, by Frank Leverett, in Seventeenth Annual, Pt. II; Water resources of Indiana and Ohio, by Frank Leverett, in Eighteenth Annual, Pt. IV; New developments in well boring and irrigation in eastern South Dakota, by N. H. Darton, in Eighteenth Annual, Pt. IV; Rock waters of Ohio, by Edward Orton, in Nineteenth Annual, Pt. IV; Artesian well prospects in the Atlantic Coastal Plain region, by N. H. Darton, Bulletin No. 138.

Series P—Hydrographic Progress Reports.

Progress reports may be found in the following publications:

For 1888–89, Tenth Annual Report, Pt. III.
1889–90, Eleventh Annual Report, Pt. II.
1890–91, Twelfth Annual Report, Pt. II.
1891–92, Thirteenth Annual Report, Pt. III.
1893–94, Bulletin No. 131.
1895, Bulletin No. 140.
1896, Eighteenth Annual Report, Pt. IV; Water-Supply Paper No. 11.
1897, Nineteenth Annual Report, Pt. IV; Water-Supply Papers Nos. 15 and 16.
1898, Twentieth Annual Report, Pt. IV; Water-Supply Papers Nos. 27 and 28.
1899, Twenty-first Annual Report, Pt. IV; Water-Supply Papers Nos. 35 to 39.
1900, Twenty-second Annual Report, Pt. IV; Water-Supply Papers Nos. 47 to 52.
1901, Water-Supply Papers Nos. 65, 66, and 75.
1902, Water-Supply Papers Nos. 82 to 85.
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[a] Discharge=current-meter measurements.

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